

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	24
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD0404_01_s _ 2013_24				
Comment Code					
Inspector Comment					
The LMA has a copy of the O & M Manual on file.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	25
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD0404_01_s _ 2013_25				
Comment Code					
Inspector Comment					
LMA has adequate flood fight supplies on hand.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	26	
LM End	0.00	Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Flood Preparedness & Training				°	
					°	
DWR ID	DWR_RD0404_01_s_2013_26					
Comment Code						
Inspector Comment						
LMA staff are maintaining their flood fight training.						

No Photos

LM Start	0.13	Rating **	M	Issue No.	31
LM End	0.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.940677 °	37.940677 °
				-121.343790 °	-121.343790 °
DWR ID	DWR_RD0404_01_s_2015_31				
Comment Code					
MA : Material					
Inspector Comment					
Remove the large concrete blocks from landward slope.					

Photo 1 of 1 : FA_2016_RD0404_305_31_20160929_00022.jpg



Looking southeast at concrete blocks on landward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.21	Rating **	C	Issue No.	9
LM End	0.26	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.939480 °	37.939480 °
				-121.342730 °	-121.342730 °
DWR ID					

No Photos

Comment Code

Inspector Comment

07/25/2016: No new erosion observed at the repaired site.
 06/24/2015: The erosion has been repaired.
 06/19/2014: No significant change observed.
 08/13/2013: The boat survey found the erosion has progressed significantly in size and in number of pocket erosions.
 08/07/2012: The site has been visited by boat survey. The erosion has developed in size, and more pocket erosions were found.
 8/23/2011: Pockets erosions observed by last survey seem to have progressed during the last flood season. Continuous monitoring of this site suggested
 9/07/2010: No significant change observed on site. There is emergent vegetation at the water line. Several pocket erosions lined along the lower slope that stretches from RM 40.86 to RM 41.14.
 9/30/2009: No major change observed; the site was combined with other existing sites are RM's 40.93, 40.98, and 41.14 as one site; several pocket erosion just above non-uniform toe rip rap; previously rated "U"; bare spots along the upper slope.
 2008: Possibly caused by wave wash erosion; several pocket erosion along the lower slope; site is inside of a bend.
 2006: Visited site 09/12/06. [2016 Site ID:RD0404U01RM40.86]

LM Start	0.34	Rating **	C	Issue No.	11
LM End	0.34	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.939228 °	37.939228 °
				-121.340786 °	-121.340786 °
DWR ID					

No Photos

Comment Code

Inspector Comment

07/25/2016: No sign of new erosion observed at the repaired site.
 06/24/2015: The erosion site has been repaired. Minor erosion is visible at the water edge.
 06/19/2014: No significant change observed.
 08/13/2013: The pocket erosion is located at immediately upstream of a small oak tree. [2016 Site ID:RD0404U01RM40.98]

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.34	Rating **	U	Issue No.	32
LM End	0.34	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.939190°	37.939190°
				-121.338280°	-121.338280°
DWR ID					

Comment Code

Inspector Comment

07/25/2016: No significant change observed.
 06/24/2015: No significant change observed.
 06/19/2014: No significant change observed.
 08/13/2013: No significant change at this site.
 08/7/2012: The erosion is next to a repaired site and approximately 400 feet downstream of a river bend. There are broken concretes at the upper levee slope, but not visible at the levee toe or lower slope. Likely the protection concrete blocks have been washed away. [2016 Site ID:RD0404U01RM41.11]

LM Start	0.34	Rating **	U	Issue No.	32 (cont)
LM End	0.34	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SJR2016_RD0404U01RM41.11_1.jpg



Front view of the site.

Photo 2 of 2 : SJR2016_RD0404U01RM41.11_2.jpg



Front view of the site.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.43	Rating **	M	Issue No.	5
LM End	0.43	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.939635 °	37.939635 °
				-121.339063 °	-121.339063 °
DWR ID	DWR_RD0404_01_s_2013_5				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
District grouted hole, and the deficiency still exist.					

LM Start	0.43	Rating **	M	Issue No.	5 (cont)
LM End	0.43	Issue Type +	Ma	Location *	CR

Photo 1 of 4 : FA_2016_RD0404_305_5_20160929_00004.jpg



Looking at partialled grouted rodent hole on levee crown (Fall 2014).

Photo 2 of 4 : FA_2016_RD0404_305_5_20160929_00005.jpg



Looking at partially grouted rodent hole on levee crown

LM Start	0.43	Rating **	M	Issue No.	5 (cont)
LM End	0.43	Issue Type +	Ma	Location *	CR

Photo 3 of 4 : FA_2016_RD0404_305_5_20160929_00006.jpg



Looking at rodent hole on levee crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.43	Rating **	M	Issue No.	5 (cont)	
LM End	0.43	Issue Type +	Ma	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.939635 °		37.939635 °
				-121.339063 °		-121.339063 °
DWR ID	DWR_RD0404_01_s _ 2013_5					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
District grouted hole, and the deficiency still exist.						

Photo 4 of 4 : FA_2016_RD0404_305_5_20160929_00007.jpg



Looking at one of several rodent holes on levee crown.

LM Start	0.45	Rating **	C	Issue No.	104
LM End	0.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.939627 °	37.939627 °
				-121.338808 °	-121.338808 °
DWR ID	DWR_RD0404_01_s _ 2012_104				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove bamboo on waterside toe. Bamboo is not within twenty feet zone, but should be removed to stop from spreading along waterward slope. Bamboo has increased in size.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.59	Rating **	C	Issue No.	40
LM End	0.61	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.939133°	37.939133°
				-121.336100°	-121.336100°
DWR ID					
Comment Code					
Inspector Comment					
07/25/2016: No sign of erosion observed at the repaired site.					
06/24/2015: The erosion has been repaired.					
06/19/2014: No significant change observed.					
08/13/2013: No significant change at this site.					
08/07/2012: The site was first discovered by levee inspector in the spring inspection. Levee slope was protected with broken concrete blocks, but those blocks have been washed away during high flows.					
[2016 Site ID:RD0404U01RM41.22]					

No Photos

LM Start	0.75	Rating **	M	Issue No.	7
LM End	0.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.937758°	37.937758°
				-121.334149°	-121.334149°
DWR ID	DWR_RD0404_01_s_2012_7				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0404_305_7_20160929_00008.jpg



Looking southeast at elderberry on landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.78	Rating **	M	Issue No.	8
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.937395°	37.937395°
				-121.333883°	-121.333883°
DWR ID	DWR_RD0404_01_s_2013_8				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trees are blocking view of the slope.					

Photo 1 of 1 : FA_2016_RD0404_305_8_20160929_00009.jpg



Looking southeast at dense trees on landward slope and toe.

LM Start	0.89	Rating **	M	Issue No.	17
LM End	0.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.936159 °	37.936159 °
				-121.332711 °	-121.332711 °
DWR ID	DWR_RD0404_01_f_2012_17				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	0.95	Rating **	M	Issue No.	2
LM End	0.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.935990 °	37.935990 °
				-121.331600 °	-121.331600 °
DWR ID	DWR_RD0404_01_s_2012_2				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking the visibility.					

No Photos

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Reclamation District No. 0404 Boggs

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.12	Rating **	C	Issue No.	39
LM End	1.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.934870 °	37.934870 °
				-121.328903 °	-121.328903 °
DWR ID	DWR_RD0404_01_s_2016_39				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	1.15	Rating **	M	Issue No.	38
LM End	1.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Riprap Revetments			37.934492 °	37.934492 °
				-121.328570 °	-121.328570 °
DWR ID	DWR_RD0404_01_s_2016_38				
Comment Code					
Inspector Comment					
Concrete with rebar on waterward shoulder and slope.					

Photo 1 of 2 : FA_2016_RD0404_305_38_20160929_00028.jpg



LM Start	1.15	Rating **	M	Issue No.	38 (cont)
LM End	1.15	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_RD0404_305_38_20160929_00029.jpg



Looking southwest at concrete rubble with rebar on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0404 Boggs

* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
N/A : Not Applicable	N : Not Inspected/Rated	Ob : Design & System Obsolescence
WS : Water Side	M : Minimally Acceptable	En : Enforcement
CR : Crown	U : Unacceptable	
	A/W : Acceptable but Monitor & Maintain	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.44	Rating **	M	Issue No.	41
LM End	1.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.930450 °	37.930450 °
				-121.327450 °	-121.327450 °
DWR ID					
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: A series of scarp erosions have been found on the lower levee slope and at the levee toe. [2016 Site ID:RD0404U01RM42.02]					

Photo 1 of 2 : SJR2016_RD0404U01RM42.02_1.jpg



Downstream view of the erosion.

LM Start	1.44	Rating **	M	Issue No.	41 (cont)
LM End	1.46	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SJR2016_RD0404U01RM42.02_3.jpg



Close view of the erosion. The upstream end of the site is protected by riprap revetment.

LM Start	1.50	Rating **	U	Issue No.	27
LM End	1.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.896544°	37.896544°
				-121.327121°	-121.327121°
DWR ID	DWR_RD0404_01_f_2016_27				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0404_305_27_20161007_00070.jpg



Looking west at untrimmed trees on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.55	Rating **	M	Issue No.	37
LM End	1.55	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.929065 °	37.929065 °
				-121.327265 °	-121.327265 °
DWR ID	DWR_RD0404_01_s_2016_37				
Comment Code					
PI : Pipe					
Inspector Comment					
3-4 inch depression across levee crown.					

No Photos

LM Start	1.70	Rating **	A/W	Issue No.	29
LM End	1.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.927517 °	37.926632 °
				-121.325515 °	-121.324868 °
DWR ID	DWR_RD0404_01_s_2015_29				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Dense untrimmed trees on waterward slope. Army Corp veg site.Tree and woody vegetation planted by the DWR but not being maintain according to agreement.					

Photo 1 of 2 : FA_2016_RD0404_305_29_20160929_00020.jpg



Looking north at dense vegetation on waterward slope.

LM Start	1.70	Rating **	A/W	Issue No.	29 (cont)
LM End	1.77	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_RD0404_305_29_20160929_00021.jpg



Looking south at dense vegetation on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.75	Rating **	M	Issue No.	34
LM End	1.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.926830 °	37.926830 °
				-121.324998 °	-121.324998 °
DWR ID	DWR_RD0404_01_s _ 2016_34				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	2.00	Rating **	U	Issue No.	33
LM End	2.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.923673 °	37.923673 °
				-121.323015 °	-121.323015 °
DWR ID	DWR_RD0404_01_s _ 2016_33				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Dead tree on waterward slope					

Photo 1 of 1 : FA_2016_RD0404_305_33_20160929_00023.jpg



Looking west at dead tree on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	2.01	Rating **	M	Issue No.	16
LM End	2.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.923470°	37.923470°
				-121.322978°	-121.322978°
DWR ID	DWR_RD0404_01_f_2013_16				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Slope damage due to foot traffic.					

Photo 1 of 2 : FA_2016_RD0404_305_16_20160929_00014.jpg



Looking west at slope damage due to foot traffic.

LM Start	2.01	Rating **	M	Issue No.	16 (cont)
LM End	2.01	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_RD0404_305_16_20160929_00015.jpg



Looking southwest at slope damage due to foot traffic.

LM Start	2.08	Rating **	M	Issue No.	13
LM End	2.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.922669 °	37.922669 °
				-121.322272 °	-121.322272 °
DWR ID	DWR_RD0404_01_f_2012_13				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0404_305_13_20161007_00071.jpg



Looking northwest at untrimmed tree on waterward slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

Photo 1 of 2 : FA_2016_RD0404_305_28_20160929_00018.jpg




Looking east at erosion on landward slope.

Photo 2 of 2 : FA_2016_RD0404_305_28_20160929_00019.jpg



Looking west at erosion on landward slope.

Photo 1 of 2 : FA_2016_RD0404_305_23_20160929_00016.jpg



Looking west at concrete rip rap with rebar. (Spring 2015)

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	2.35	10/06/2016 10/06/2016	Richard Willoughby

LM Start	2.33	Rating **	M	Issue No.	23 (cont)
LM End	2.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Riprap Revetments			37.920488°	37.920338°
				-121.318630°	-121.318435°
DWR ID	DWR_RD0404_01_s_2013_23				
Comment Code					
Inspector Comment					
Remove rebar from existing concrete rip rap on waterward slope.					

Photo 2 of 2 : FA_2016_RD0404_305_23_20160929_00017.jpg



Looking southwest at concrete rip rap with rebar.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.09	Rating **	M	Issue No.	13
LM End	1.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.919497°	37.917663°
				-121.317128°	-121.299667°
DWR ID	DWR_RD0404_02_f _ 2016_13				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	0.14	Rating **	U	Issue No.	14
LM End	0.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.918875 °	37.918875 °
				-121.316587 °	-121.316587 °
DWR ID	DWR_RD0404_02_f_2016_14				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0404_306_14_20161007_00031.jpg



Looking southeast at erosion on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.35	Rating **	M	Issue No.	3
LM End	0.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.918935 °	37.919543 °
				-121.313335 °	-121.311432 °
DWR ID	DWR_RD0404_02_s_2012_3				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent program not working.					

No Photos

LM Start	0.48	Rating **	M	Issue No.	8
LM End	0.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.919525 °	37.919525 °
				-121.311193 °	-121.311193 °
DWR ID	DWR_RD0404_02_s_2012_8				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent program not working.					

No Photos

LM Start	0.51	Rating **	M	Issue No.	12
LM End	0.51	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.919528 °	37.919528 °
				-121.310635 °	-121.310635 °
DWR ID	DWR_RD0404_02_f_2012_12				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/06/2016 10/06/2016	Richard Willoughby

LM Start	0.68	Rating **	U	Issue No.	21
LM End	0.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.919245 °	37.916652 °
				-121.307705 °	-121.305085 °
DWR ID	DWR_RD0404_02_s_2016_21				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Large holes noted on landward slope.					

Photo 1 of 2 : FA_2016_RD0404_306_21_20160929_00006.jpg



Looking northeast at large roden hole on landward slope.

LM Start	0.68	Rating **	U	Issue No.	21 (cont)
LM End	0.94	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_RD0404_306_21_20160929_00007.jpg



Looking east at large rodent hole on landward slope.

LM Start	0.82	Rating **	C	Issue No.	4
LM End	0.91	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.918320 °	37.917162 °
				-121.305740 °	-121.305285 °
DWR ID	DWR_RD0404_02_s_2012_4				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.08	Rating **	U	Issue No.	20
LM End	1.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.916383 °	37.916383 °
				-121.302802 °	-121.302802 °
DWR ID	DWR_RD0404_02_s_2016_20				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Large rodent holes on landward slope and levee crown.					

Photo 1 of 2 : FA_2016_RD0404_306_20_20160929_00004.jpg



Looking at rodent hole on levee crown.

LM Start	1.08	Rating **	U	Issue No.	20 (cont)
LM End	1.08	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_RD0404_306_20_20160929_00005.jpg



Looking at rodent hole on landward slope.

LM Start	1.11	Rating **	C	Issue No.	19
LM End	1.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.916337 °	37.916337 °
				-121.302287 °	-121.302287 °
DWR ID	DWR_RD0404_02_s_2016_19				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Vehicle erosion on landward slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.13	Rating **	M	Issue No.	67
LM End	1.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.916337 °	37.916337 °
				-121.301888 °	-121.301888 °
DWR ID	DWR_RD0404_02_s_2012_67				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Dense vegetation around propane tank inside fenced area.					

Photo 1 of 4 : FA_2016_RD0404_306_67_20160929_00008.jpg



Looking northeast at dense vegetation inside fenced area near pump station on landside toe.

LM Start	1.13	Rating **	M	Issue No.	67 (cont)
LM End	1.13	Issue Type +	Ma	Location *	LS

Photo 2 of 4 : FA_2016_RD0404_306_67_20160929_00009.jpg



Looking north at dense vegetation on landward toe around propane tank.

LM Start	1.13	Rating **	M	Issue No.	67 (cont)
LM End	1.13	Issue Type +	Ma	Location *	LS

Photo 3 of 4 : FA_2016_RD0404_306_67_20160929_00010.jpg



Looking northeast at dense vegetation on landward toe. (Spring 2013)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/06/2016 10/06/2016	Richard Willoughby

Photo 4 of 4 : FA_2016_RD0404_306_67_20160929_00011.jpg



Looking east at dense vegetation near pump station on landside toe.

Photo 1 of 1 : FA_2016_RD0404_306_15_20160929_00001.jpg



Looking east at dead stump on landward toe.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.23	Rating **	M	Issue No.	64
LM End	1.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.917042°	37.917042°
				-121.300400°	-121.300400°
DWR ID	DWR_RD0404_02_s_2012_64				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes on waterside shoulder and slope. The District is grouting the holes. But rodent program not working.					

No Photos

LM Start	1.24	Rating **	U	Issue No.	18
LM End	1.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.917092 °	37.917092 °
				-121.300352 °	-121.300352 °
DWR ID	DWR_RD0404_02_s_2016_18				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove dead tree from waterward slope.					

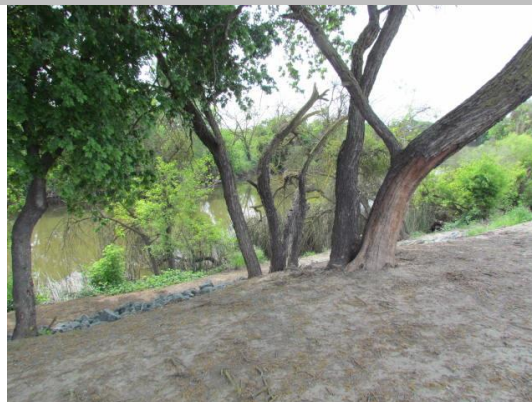
Photo 1 of 2 : FA_2016_RD0404_306_18_20160929_00003.jpg



Looking east at dead trees on waterward slope.

LM Start	1.24	Rating **	U	Issue No.	18 (cont)
LM End	1.24	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_RD0404_306_18_20160929_00002.jpg



Looking at close up view of dead trees on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0404 Boggs

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 French Camp Slough	Right	1.75	10/06/2016 10/06/2016	Richard Willoughby

LM Start	1.44	Rating **	M	Issue No.	61
LM End	1.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.918473 °	37.918535 °
				-121.297213 °	-121.295980 °
DWR ID	DWR_RD0404_02_s_2012_61				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.75	Rating **	M	Issue No.	17
LM End	1.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.917315 °	37.917315 °
				-121.291807 °	-121.291807 °
DWR ID	DWR_RD0404_02_s_2016_17				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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